Panasonic

heating & cooling solutions



PACi NX ceiling PT3 Standard

1. Great balance of system cost and performance

· Energy class A++ both in heating and cooling*
· Optimisation of the shape of the indoor casing and fan assures bigger air flow and higher efficiency

* For 6,0kW

2. Streamlined and compact design with easy system setup

· With a sleek, single-motion design, the unit presents a slim and compact profile when installed
· Wired remote controller CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®

3. Better indoor air quality with nanoe™ X

· nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality



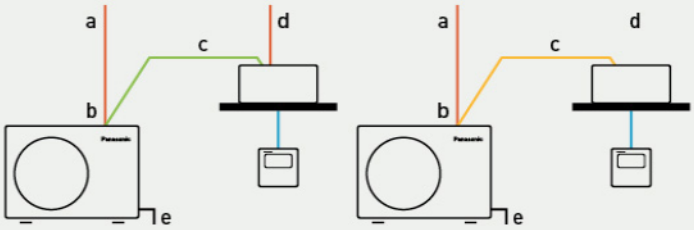
PACi

R32 nanoeX A++ INVERTER+

PACi NX Series



(A) (B)



PACi NX Series for absolute ease of refurbishment. The next generation is here

NX Series with R32 refrigerant has been developed to meet the demand of easy refurbishment with 3 wire method. It makes it simple and easy to replace old systems with 3 wire connections, which is prevalent in many systems.

PACi PZ2/PZH2: 2 wire method. - PACi NX Series: 3 wire method.

a. Power supply - b: Outdoor unit power wiring - c: Signal wiring (2 wire shielded) - d: Power supply - e: Earth - f: Power + Signal Wiring (3 wire + earth)



a	❄	♨
3,6kW	A++	A+
5,0kW	A++	A+
6,0kW	A++	A++
7,1kW	A+	A+
10,0kW	A++	A+
12,5kW	241,7%	147,4%
14,0kW	228,8%	145,3%

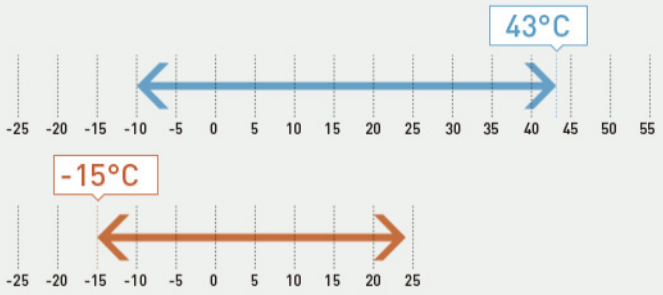
PACi NX Standard – For economy and value

The Standard series are the perfect solutions for projects which demand quality on a limited budget.

· Absolute ease of refurbishment
· Low-height single fan outdoor unit design
· Top class SEER: A++ / SCOP: A++ for 6,0kW in the standard Inverter category.
· Operation range up to 43°C in cooling and down to -15°C in heating
· Maximum piping length 50m

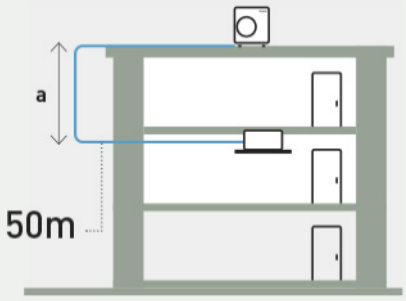
a: Energy class [1] and seasonal efficiency value ($\eta_{s,c}$ / $\eta_{s,h}$) [2].

1) Energy label scale from A+++ to D for models below 12,0kW (EU regulation 626/2011). 2) $\eta_{s,c}$ / $\eta_{s,h}$ values for models above 12,0kW (EN 14825).



PACi NX Standard – Extended operation range up to 43°C in cooling and down to -15°C in heating

PACi NX Standard Series are capable of working even in the challenging ambient conditions. Cooling operation is possible when outdoor temperature is as low as -10°C or as high as 43°C. Heating operation can also be utilized for outdoor temperatures as low as -15°C and as high as 24°C .



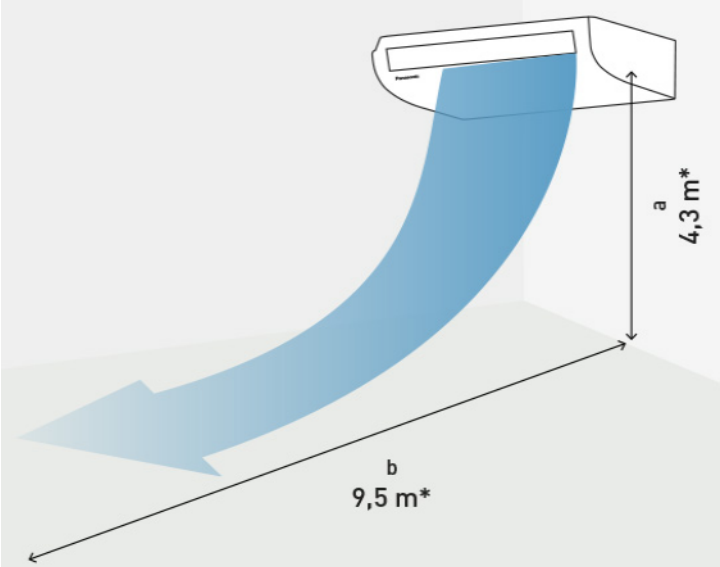
PACi NX Standard – Long piping allowance maximum 50m*

Long piping length gives great design flexibility to adapt various building types and sizes.
Piping length: 50m (10,0 to 14,0kW), 40m (6,0 to 7,1kW), 20m (5,0kW), 15m (>3,6kW).

a: Maximum height difference between outdoor unit and indoor unit: 30m (15m if the outdoor unit is below the indoor unit).

* For models 10,0 ~ 14,0kW.

PACi NX Series

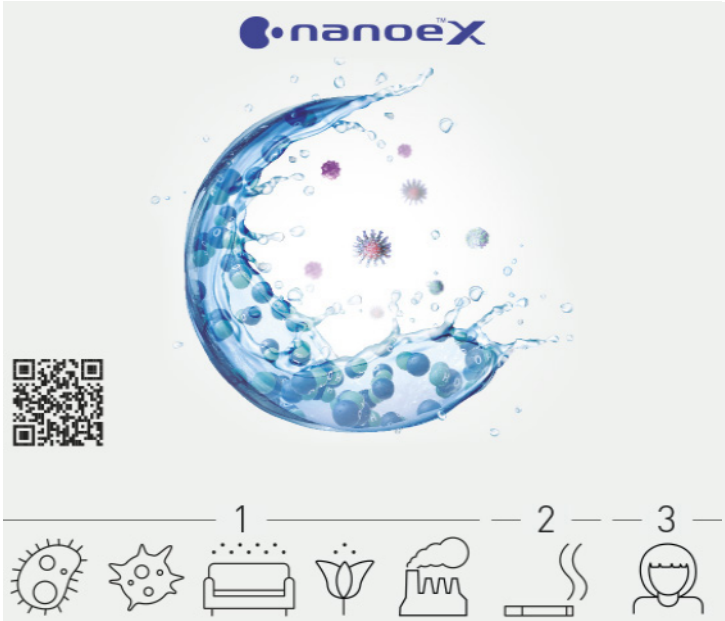


Comfortable, long-distance airflow distribution

The shape of the outlet has been optimised to provide long-distance air flow distribution.
Even in long rooms, air flow reaches every corner for exceptionally comfortable air conditioning.

a: Ceiling height - b: Air flow distance.

* Results are based on specific testing conditions.



Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals
Abundant in nature, hydroxyl radicals have the capacity to inhibit pollutants. nanoe™ X, technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and pleasant place to be.

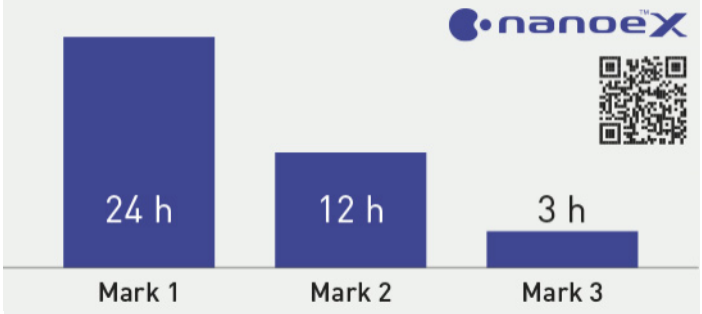
7 effects of nanoe™ X – Panasonic unique technology

1. Capacity to inhibit 5 types of pollutants: Bacteria and viruses - Mould - Allergens - Pollen - Hazardous substances
2. Deodorises: Odours
3. Moisturises: Skin and hair



nanoe™ X: improving protection 24/7

Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoe™ X works together with heating or cooling function when you are at home and can work independently when you are away.
Give the air conditioning the strength to increase the protection at home with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.



Comparison of time required to inhibit 99% of cedar pollen

The result of nanoe X Generator Mark 3.
Inhibits pollen in 1/4 the time of nanoe X Generator Mark 2*.

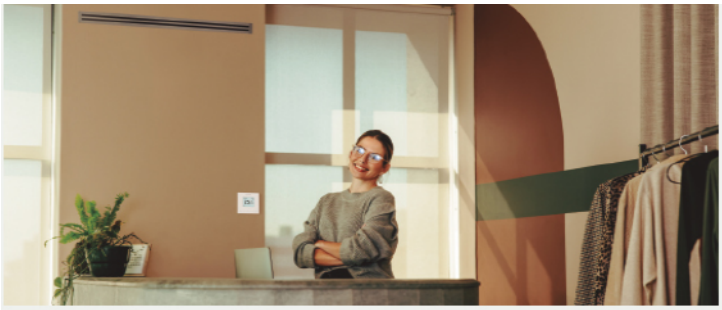
* Effect after 3 hours in a test space of approx. 24m³. The figures are not the results of testing in an actual operating space.

PACi NX Series Standard ceiling Inverter+ - R32

PACi NX Series Standard ceiling Inverter+ - R32		SINGLE PHASE				
		3.6 kW	5.0 kW	6.0 kW	7.1 kW	14.0 kW
Kit		KIT-36PT3Z5	KIT-50PT3Z5	KIT-60PT3Z5	KIT-71PT3Z5	KIT-140PT3Z5
Remote controller		CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity (Nominal)	kW	3,5	5,0	6,0	6,8	14,0
Cooling capacity (Min)	kW	1,5	1,5	2,0	2,6	3,3
Cooling capacity (Max)	kW	4,0	5,2	7,1	7,7	15,0
EER (Nominal) (1)	W/W	4,14	3,03	3,59	3,24	2,98
SEER/ηsc (2)	%	7,2 A++	6,7 A++	7,3 A++	5,9 A+	228,8 %
Pdesign (cooling)	kW	3,5	5,0	6,0	6,8	14,0
Input power cooling (Nominal)	kW	0,85	1,65	1,67	2,10	4,70
Annual energy consumption cooling (3)	kWh/a	171	262	288	404	—
Heating capacity (Nominal)	kW	3,5	5,0	6,0	6,8	14,0
Heating capacity (Min)	kW	1,5	1,5	1,8	2,1	3,4
Heating capacity (Max)	kW	4,6	6,4	7,0	8,1	16,0
COP (Nominal) (1)	W/W	4,61	3,73	4,11	4,20	3,70
SCOP/ηsc (2)	%	4,4 A+	4,1 A+	4,6 A++	4,3 A+	145,3 %
Pdesign at -10°C	kW	2,8	4,0	4,6	4,7	13,6
Input power heating (Nominal)	kW	0,76	1,34	1,46	1,62	3,78
Annual energy consumption heating (3)	kWh/a	891	1.365	1.399	1.529	—
Indoor unit		S-3650PT3E	S-3650PT3E	S-6071PT3E	S-6071PT3E	S-1014PT3E
Indoor air flow (Hi)	m³/min	14,0	15,0	20,0	21,0	35,0
Indoor air flow (Med)	m³/min	12,0	12,5	17,0	18,0	29,0
Indoor air flow (Lo)	m³/min	10,5	10,5	14,5	15,5	25,0
Moisture removal volume	L/h	0,8	2,0	2,1	2,7	6,9
Indoor sound pressure (Med) (4)	dB(A)	32	33	34	35	41
Indoor sound pressure (Lo) (4)	dB(A)	28	28	29	30	36
Indoor sound power (Hi)	dB(A)	54	55	56	57	65
Indoor sound power (Med)	dB(A)	50	51	52	53	59
Indoor sound power (Lo)	dB(A)	46	46	47	48	54
Indoor dimension (Height)	mm	235	235	235	235	235
Indoor dimension (Width)	mm	960	960	1.275	1.275	1.590
Indoor dimension (Depth)	mm	690	690	690	690	690
Indoor net weight	kg	26	26	34	34	40
nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit		U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-140PZ3E5
Outdoor power source	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current in cooling (1p 220V / 3p 380)	A	3,90	7,65	7,75	9,75	22,70
Current in cooling (1p 230V / 3p 400)	A	3,75	7,30	7,40	9,30	21,70
Current in cooling (1p 240V / 3p 415)	A	3,60	7,00	7,10	8,95	20,80
Current in heating (1p 220V / 3p 380)	A	3,55	6,30	6,75	7,50	18,30
Current in heating (1p 230V / 3p 400)	A	3,40	6,00	6,50	7,20	17,50
Current in heating (1p 240V / 3p 415)	A	3,25	5,75	6,20	6,90	16,80
Outdoor air flow (Cool)	m³/min	33,6	32,7	42,6	44,7	84,0
Outdoor air flow (Heat)	m³/min	34,0	31,9	41,5	45,9	82,0
Outdoor sound pressure (Cool -Hi)	dB(A)	46	46	47	48	56
Outdoor sound pressure (Heat -Hi)	dB(A)	47	46	48	49	56
Outdoor sound power (Cool -Hi)	dB(A)	64	64	64	66	74
Outdoor sound power (Heat -Hi)	dB(A)	66	64	65	68	74
Outdoor dimension (Height)	mm	619	619	695	695	996
Outdoor dimension (Width)	mm	824	824	875	875	980
Outdoor dimension (Depth)	mm	299	299	320	320	370
Outdoor net weight	kg	32	35	42	50	87
Pipe diameter (Liquid)	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) (5)	1/4 (6,35) (5)	3/8 (9,52)
Pipe diameter (Gas)	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) (6)	5/8 (15,88)	5/8 (15,88)
Pipe length range	m	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50
Elevation difference (in/out) (7)	m	15 / 15 (8)	15 / 15 (8)	15 / 30 (8)	20 / 30 (8)	15 / 30 (8)
Pipe length for additional gas	m	7,5	7,5	30	30	30
Additional gas amount	g/m	10	15	15	17	45
Refrigerant (R32) / CO2 Eq.	kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,80 / 1,89
Operating range (Cool - Min)	°C	-10	-10	-10	-10	-10
Operating range (Cool - Max)	°C	+43	+43	+43	+43	+43
Operating range (Heat - Min)	°C	-15	-15	-15	-15	-15
Operating range (Heat - Max)	°C	+24	+24	+24	+24	+24

1) EER and COP calculation is based in accordance with EN14511.
2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the ηsc / ηsh values are calculated based on EN 14825.
3) Factory setting.
4) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
5) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit.
6) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit.
7) When installing the outdoor unit at a higher position than the indoor unit.
8) Outdoor unit located lower / outdoor unit located higher.
* Recommended fuse for the indoor 3A.
** Above values are in the case of nanoe™ X OFF.

Smart & intuitive controls for PACi NX Series

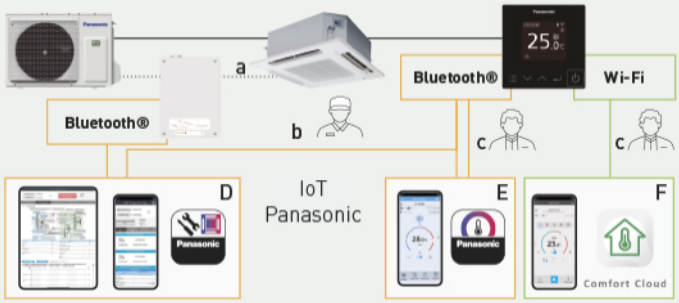




CONEX provides comfort and control for varying user needs

CONEX with IoT integration. Not only detailed operation and maintenance settings are possible with the smartphone or tablet, but also service and diagnostic functions.

1. **Intuitive control** with stylish design
2. **Control comfort** with your smartphone
3. **Easy maintenance** with service support app



CONEX with IoT integration

The wired remote controller series is fully integrated with IoT solutions developed by Panasonic.
Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.

a: Service checker interface - b: Panasonic service and installer - c: End user - D: Panasonic H&C Diagnosis App - E: Panasonic H&C Control App F: Panasonic Comfort Cloud App



Commercial Wi-Fi Adaptor for Panasonic Comfort Cloud App

· For end user · Connection via Wi-Fi
· Commercial Wi-Fi Adaptor (CZ-CAPWFC1) required

Features: · Remote control and monitoring 24/7/365· Scheduling · Error alerts · From 1 to 200 units · Voice control compatible · Multi user · Easy scheduling · Energy monitor · Error codes

* CZ-RTC6WBLW or CZ-RTC6BLW required.



Panasonic H&C Diagnosis App

· Tool for diagnosis and troubleshooting
· For service and installer · Connection via Bluetooth®

Features: · AC control (system view, refrigerant circuit view)· Real-time data (indoor/outdoor unit) · Refrigerant cycle diagram and graph · Data recording· History data · Error code tables

* A service checker interface is required when this app is used from outdoor location. Wired remote controller (CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW or CZ-RTC6BLW) is required when this app is used from indoor location. Compatible with PZ3 and PZH3 outdoor units.



Panasonic H&C Control App

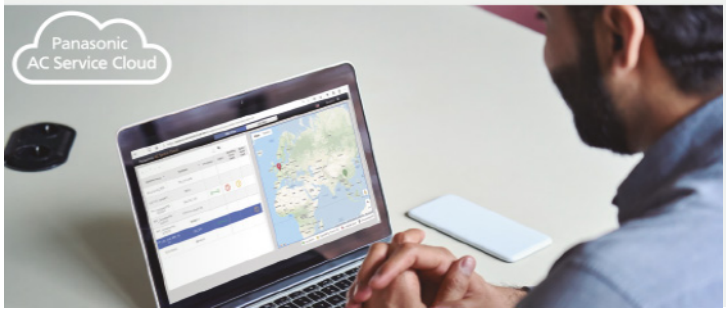
· For end user, service and installer · Connection via Bluetooth®

Detailed operation setting features: · Basic settings · Weekly timer· All energy saving functions · Key lock · Ventilation fan control etc
Detailed maintenance setting features: · Alarm display and history · Filter sign · Test run · Sensor value monitor etc

* CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW or CZ-RTC6BLW required.

Accessories





Smart multi-site control solution

Panasonic AC Smart and Service Cloud is the modern and scalable energy management system for your heating and cooling solutions. One screen with endless possibilities.

AC Smart Cloud for owner and facility manager.
· Multi-site monitoring · Schedule setting · Powerful statistics for energy savings · Maintenance notification

AC Service Cloud for service and installer.
· All sites at a glance with alarm status · Self diagnosis function · Maintenance planning · Service checker parameters available for the analysis

1


2


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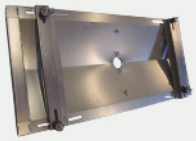

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5


6


Accessories	
1. CZ-RTC6W	CONEX wired remote controller (non-wireless), white
1. CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
1. CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
2. CZ-RTC6	CONEX wired remote controller (non-wireless), black
2. CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
2. CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
3. CZ-RTC5B	Wired remote controller with Econavi function and datanavi
4. CZ-CAPWFC1	Commercial Wi-Fi Adaptor
5. PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
6. CZ-CENSC1	Econavi energy saving sensor

7


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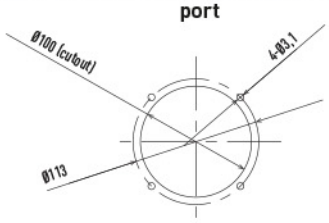
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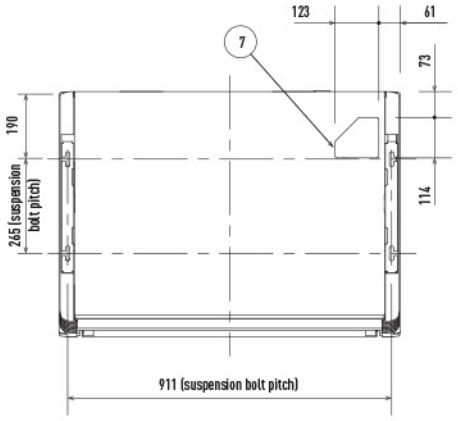

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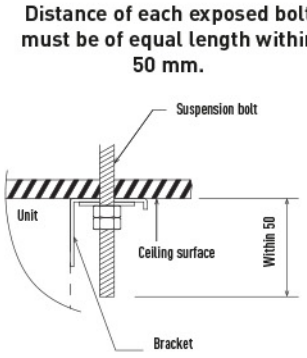

Accessories	
7. CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver
8. PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
9. PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
10. PAW-GRDSTD40	Outdoor elevation platform 400x900x400 mm

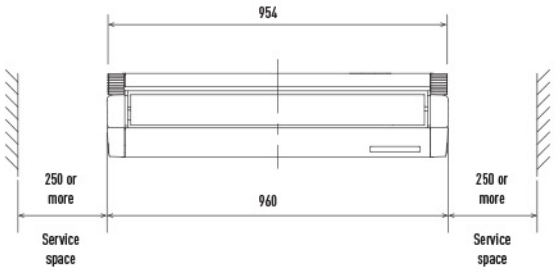
Dimensions

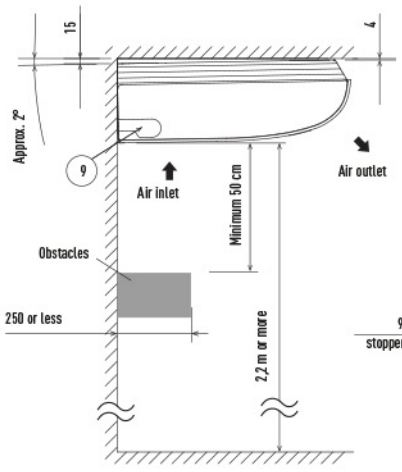
PACi NX Series ceiling (S-3650PT3E).



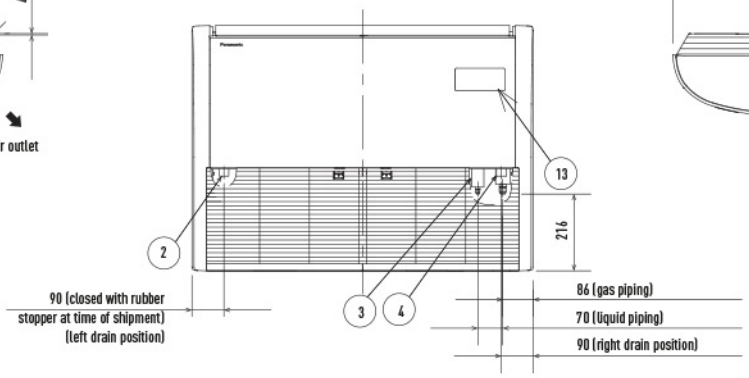


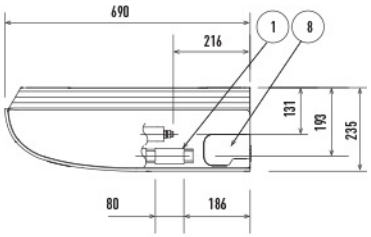




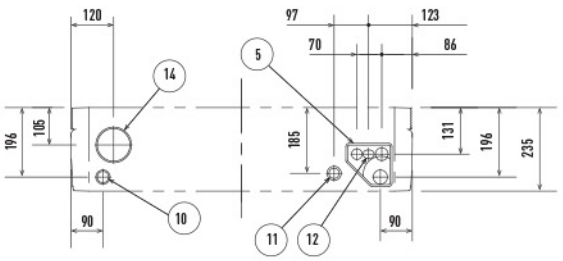


Side view

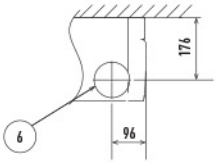




Hole position of indoor unit rear-side (figure shows view from front)



Piping hole position on wall surface (figure shows view from front)



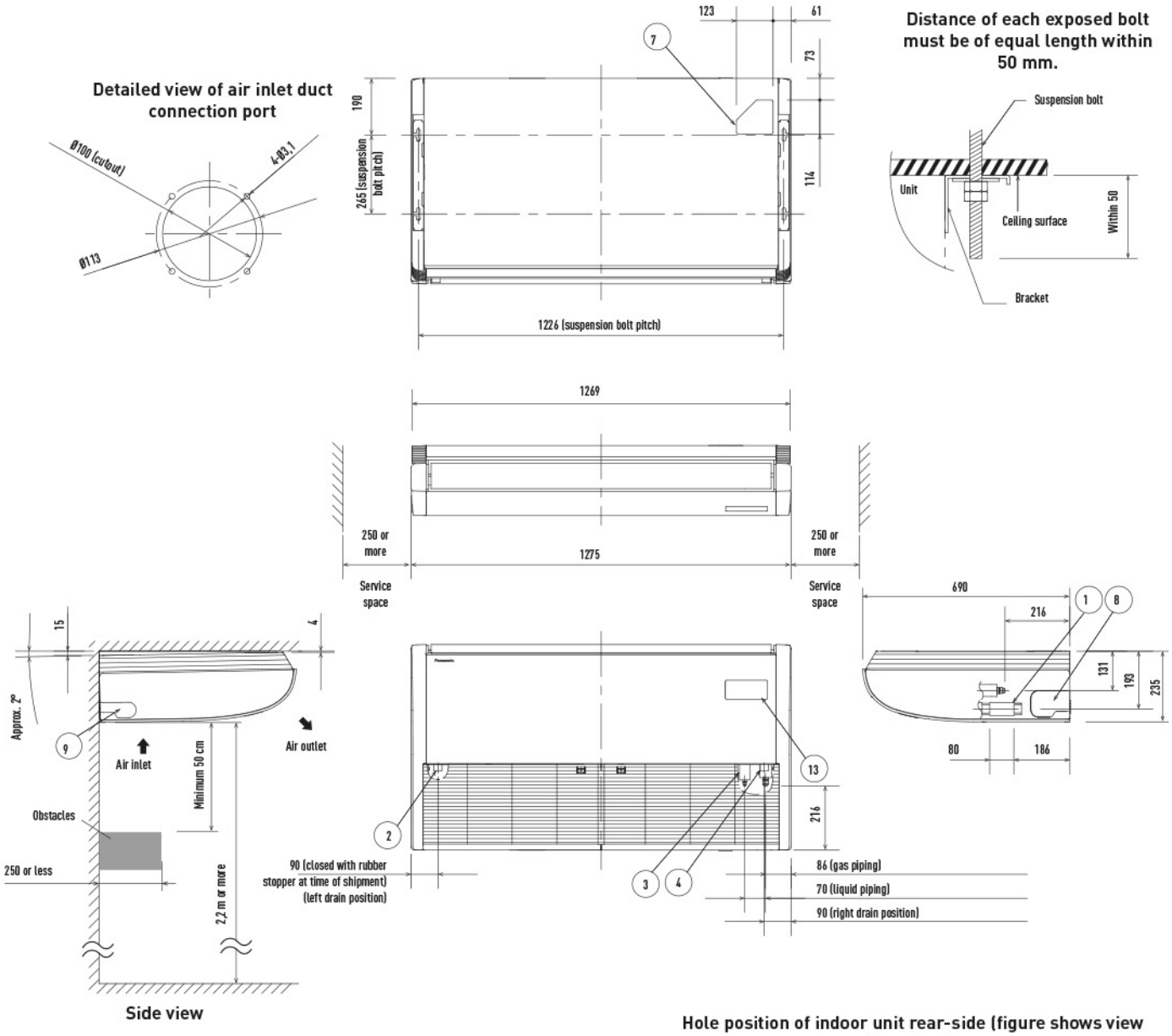
1	Drain piping connection port VP20	Inside diameter 26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant piping (liquid)	Ø6,35mm (flared)
4	Refrigerant piping (gas)	Ø12,7mm (flared)
5	Cover of rear piping hole	
6	Piping hole on wall surface	Ø100 mm
7	Upper side piping port	
8	Right side drain hose outlet port (cutout)	
9	Left side drain hose outlet port (cutout)	
10	Left-rear side drain hose outlet port (cutout)	
11	Power inlet port	
12	Remote control wiring and inter-unit wiring inlet port	
13	Wireless remote controller receiver installation location	
14	Air inlet duct connection port	Ø100 mm (cutout)

Filter dimension: 421 x 250 x 16 mm x 2 pcs.

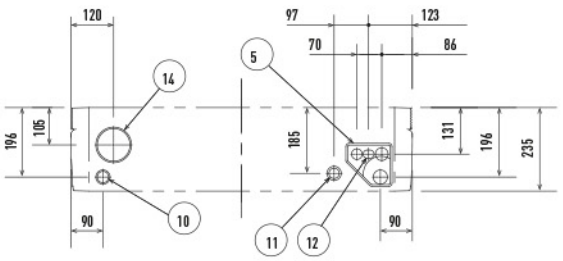
Unit: mm

Dimensions

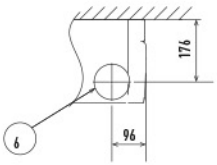
PACi NX Series ceiling (S-6071PT3E).



Hole position of indoor unit rear-side (figure shows view from front)



Piping hole position on wall surface (figure shows view from front)



1	Drain piping connection port VP20	Inside diameter 26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant piping (liquid)	Ø9,52 (flared) [1]
4	Refrigerant piping (gas)	Ø15,88 (flared) [2]
5	Cover of rear piping hole	
6	Piping hole on wall surface	Ø100 mm
7	Upper side piping port	
8	Right side drain hose outlet port (cutout)	
9	Left side drain hose outlet port (cutout)	
10	Left-rear side drain hose outlet port (cutout)	
11	Power inlet port	
12	Remote control wiring and inter-unit wiring inlet port	
13	Wireless remote controller receiver installation location	
14	Air inlet duct connection port	Ø100 mm (cutout)

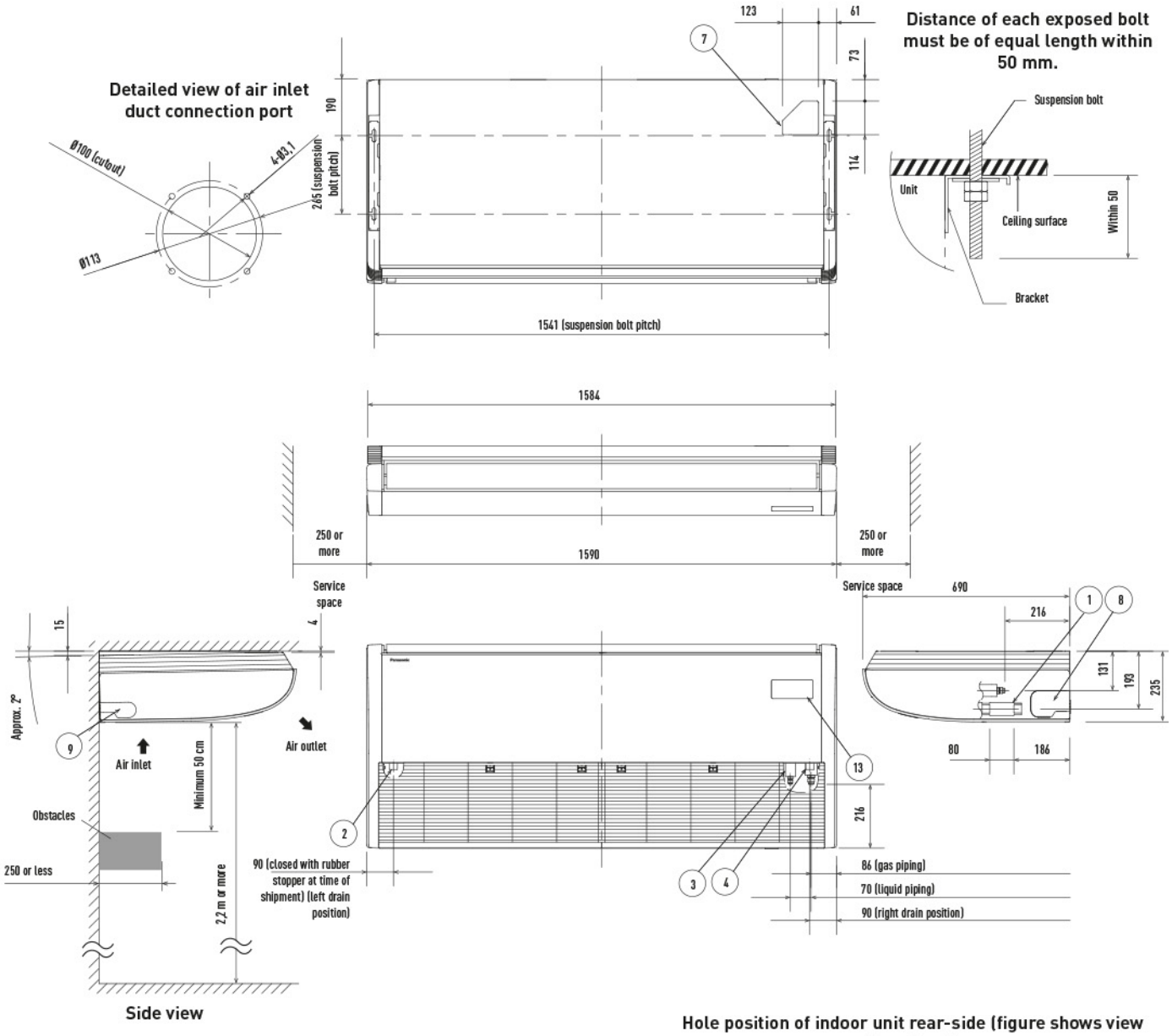
1) When connecting with U-60PZ3E5, U-71PZ3E5 or U-60PZH3E5, connect the liquid socket piping (Ø9,52 - Ø6,35) to the liquid piping side indoor unit.
2) When connecting with U-60PZ3E5 or U-60PZH3E5, connect the gas socket piping (Ø15,88 - Ø12,7) to the gas piping side indoor unit.

Filter dimension: 579 x 250 x 16 mm x 2 pcs.

Unit: mm

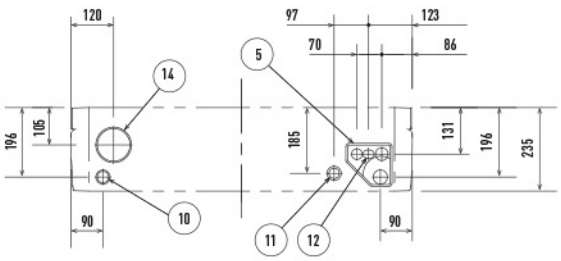
Dimensions

PACi NX Series ceiling (S-1014PT3E).

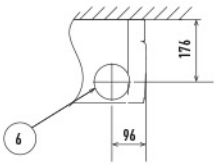


Side view

Hole position of indoor unit rear-side (figure shows view from front)



Piping hole position on wall surface (figure shows view from front)



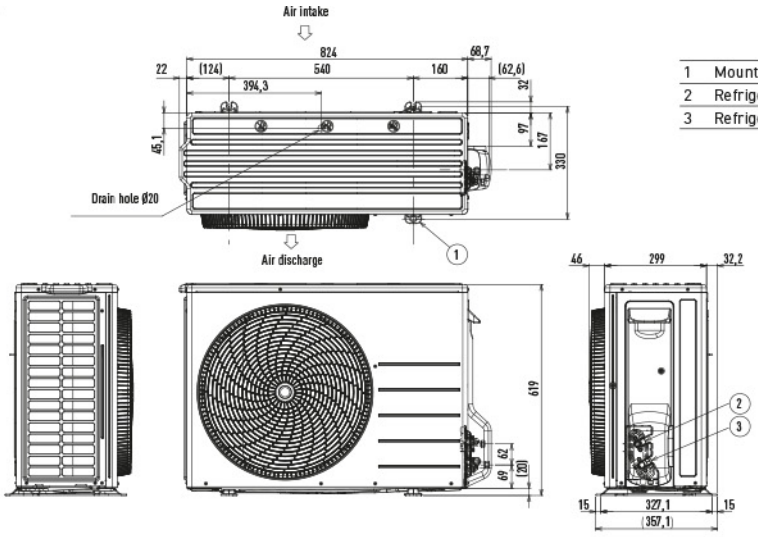
1	Drain piping connection port VP20	Inside diameter 26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant piping (liquid)	Ø9,52 (flared)
4	Refrigerant piping (gas)	Ø15,88 (flared)
5	Cover of rear piping hole	
6	Piping hole on wall surface	Ø100 mm
7	Upper side piping port	
8	Right side drain hose outlet port (cutout)	
9	Left side drain hose outlet port (cutout)	
10	Left-rear side drain hose outlet port (cutout)	
11	Power inlet port	
12	Remote control wiring and inter-unit wiring inlet port	
13	Wireless remote controller receiver installation location	
14	Air inlet duct connection port	Ø100 mm (cutout)

Filter dimension: 736 x 250 x 14 mm x 2 pcs.

Unit: mm

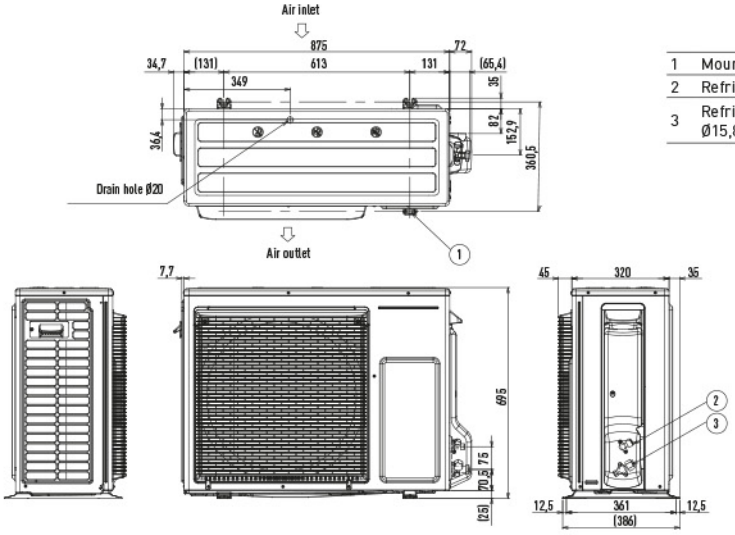
Dimensions

PACi NX. Standard 2,5 - 5,0 kW



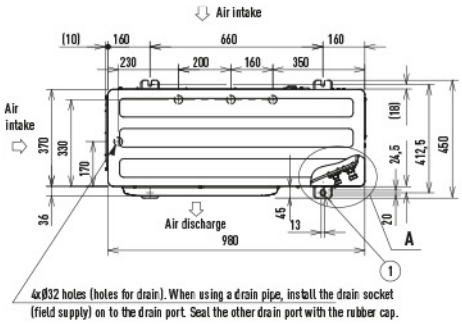
1	Mounting hole (4-R6,5), anchor bolt: M10
2	Refrigerant piping (liquid), Ø6,35 (flared)
3	Refrigerant piping (gas), Ø12,70 (flared)

PACi NX. Standard 6,0 - 7,1 kW

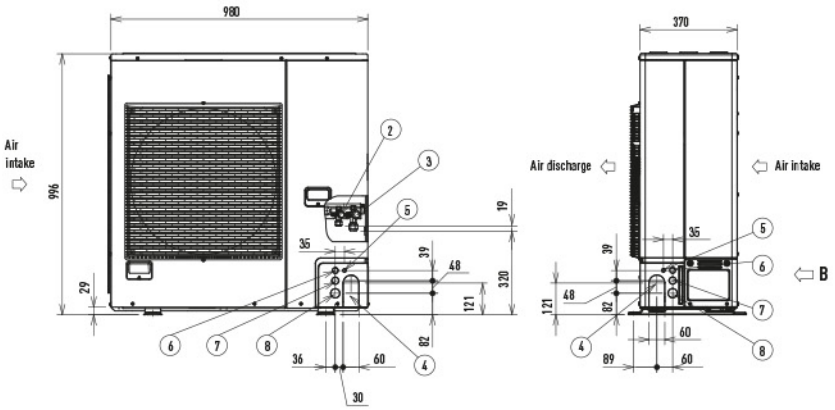


1	Mounting hole (4-R6,5), anchor bolt: M10
2	Refrigerant piping (liquid), Ø6,35 (flared)
3	Refrigerant piping (gas), Ø12,70 (flared). U-71PZ3E5, Ø15,88 (flared)

PACi NX. Standard 10,0 - 14,0 kW



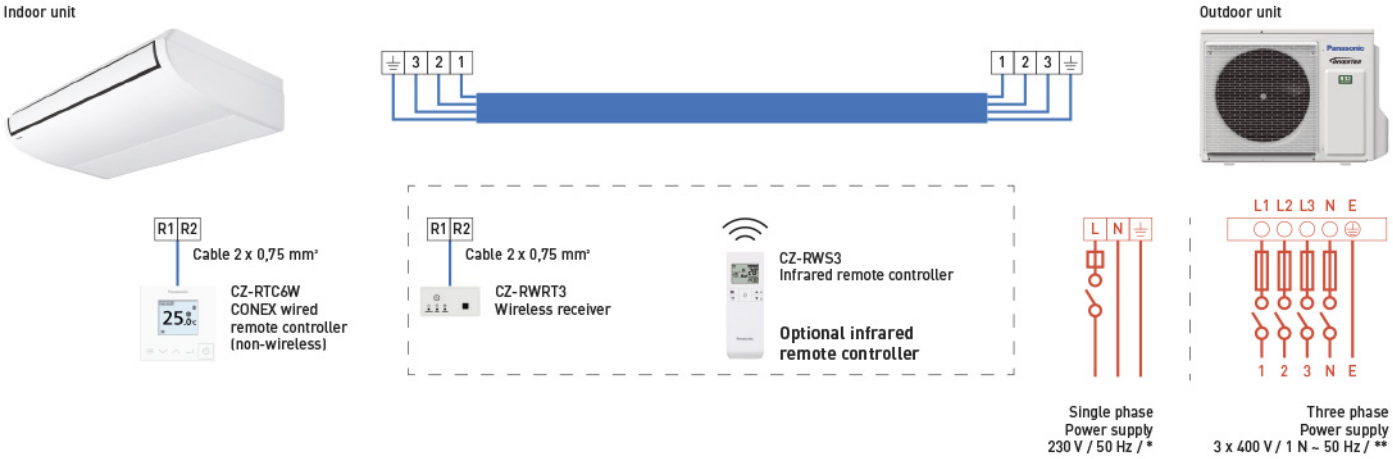
1	Mounting hole, anchor bolt: M10
2	Refrigerant piping (liquid), Ø9,52 (flared)
3	Refrigerant piping (gas), Ø15,88 (flared)
4	Refrigerant piping hole
5	Electrical wiring port (Ø13)
6	Electrical wiring port (ØØ22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)



Unit: mm

Wiring diagrams

PACi NX ceiling kits 1x1



Single phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
S-3650PT3E	4 x 1,5 mm²	U-36PZ3E5	220/230/240 V	16 A
S-3650PT3E	4 x 1,5 mm²	U-50PZ3E5		16 A
S-6071PT3E	4 x 1,5 mm²	U-60PZ3E5A		20 A
S-6071PT3E	4 x 1,5 mm²	U-71PZ3E5A		20 A
S-6010PT3E	4 x 2,5 mm²	U-100PZ3E5		35 A
S-1014PT3E	4 x 2,5 mm²	U-125PZ3E5		40 A
S-1014PT3E	4 x 2,5 mm²	U-140PZ3E5		40 A

Three phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
S-1014PT3E	4 x 2,5 mm²	U-100PZ3E8	380/400/415 V	20 A
S-1014PT3E	4 x 2,5 mm²	U-125PZ3E8		20 A
S-1014PT3E	4 x 2,5 mm²	U-140PZ3E8		20 A